

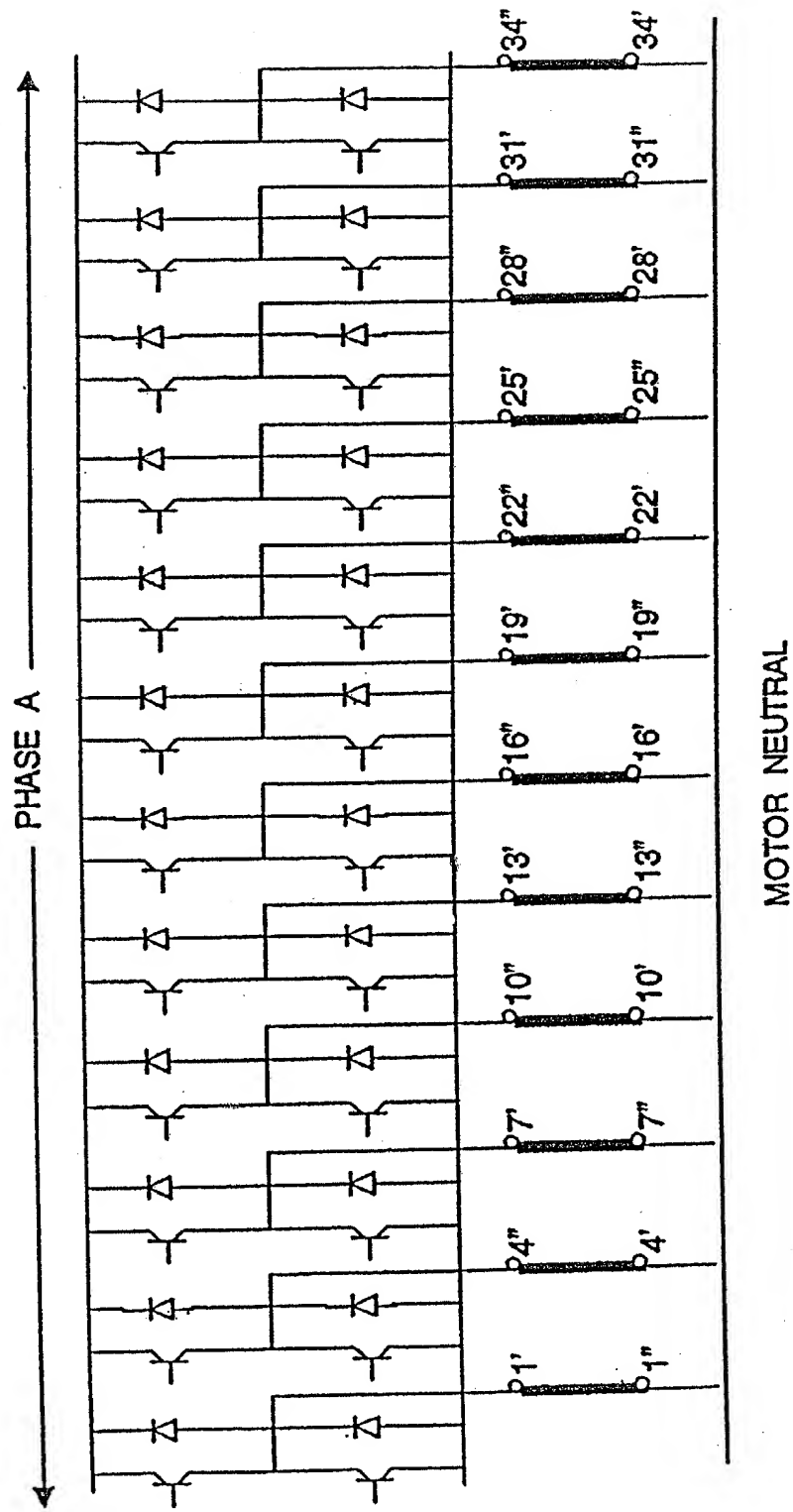
FIG. 1

Phase and coil connections for the 12-pole machine configuration.

Machine pole	Coil Number	Machine Phases					
		+A	+B	+C	-A	-B	-C
N	1	X					
	2					X	
	3			X			
S	4				X		
	5		X				
	6						X
N	7	X					
	8					X	
	9			X			
S	10				X		
	11		X				
	12						X
N	13	X					
	14					X	
	15			X			
S	16				X		
	17		X				
	18						X
N	19	X					
	20					X	
	21			X			
S	22				X		
	23		X				
	24						X
N	25	X					
	26					X	
	27			X			
S	28				X		
	29		X				
	30						X
N	31	X					
	32					X	
	33			X			
S	34				X		
	35		X				
	36						X

000001 000001 000001

FIG. 2



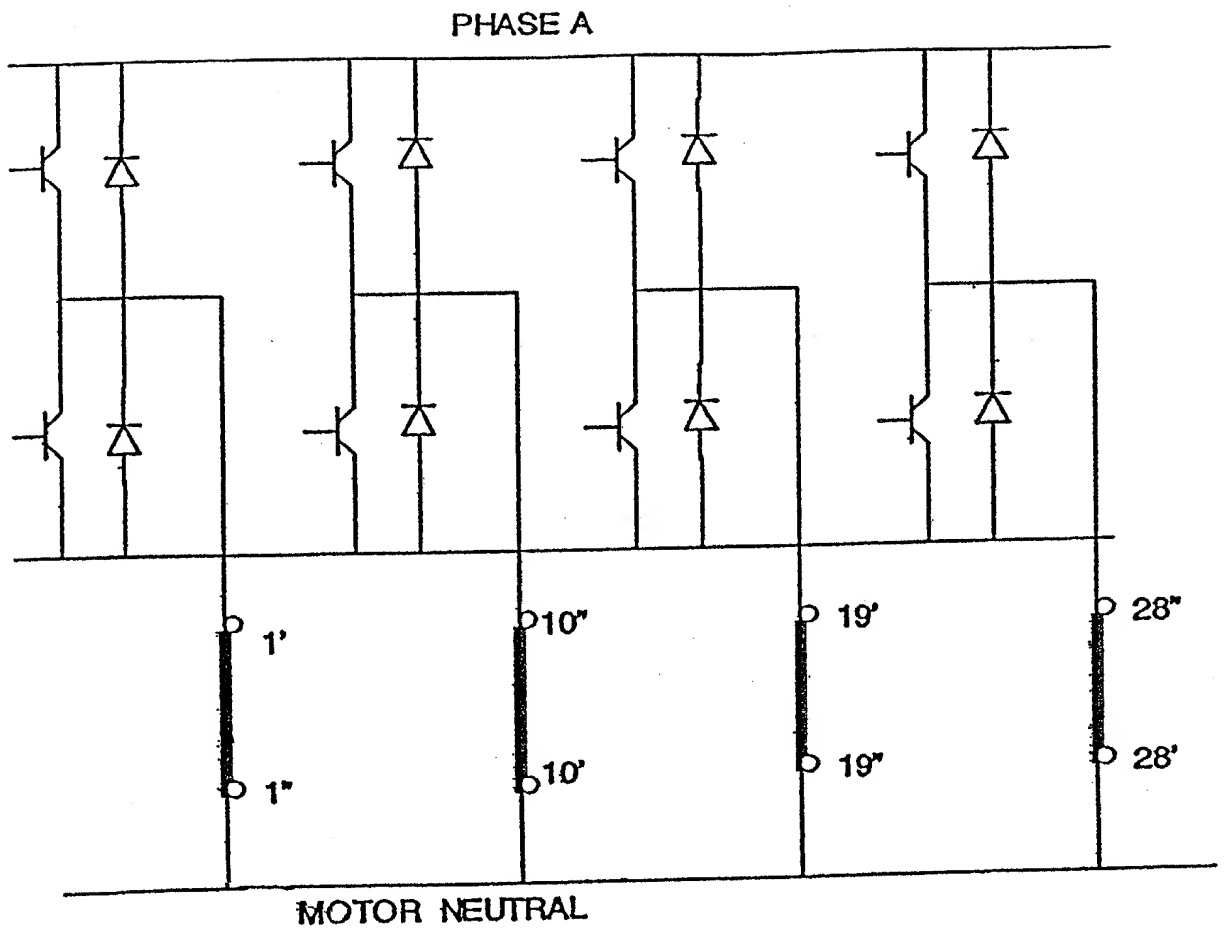


FIG. 4

000001 688882 688

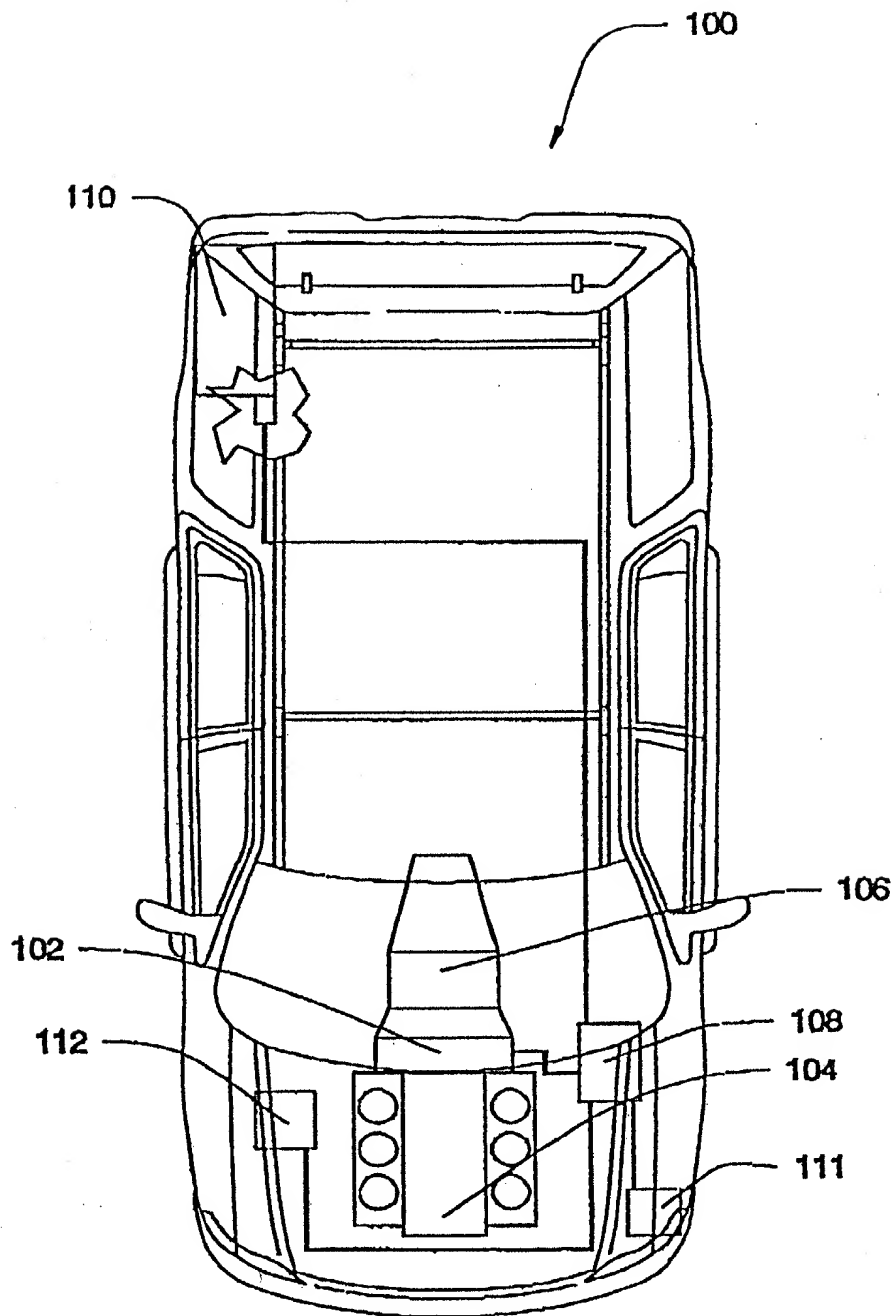


FIG. 5

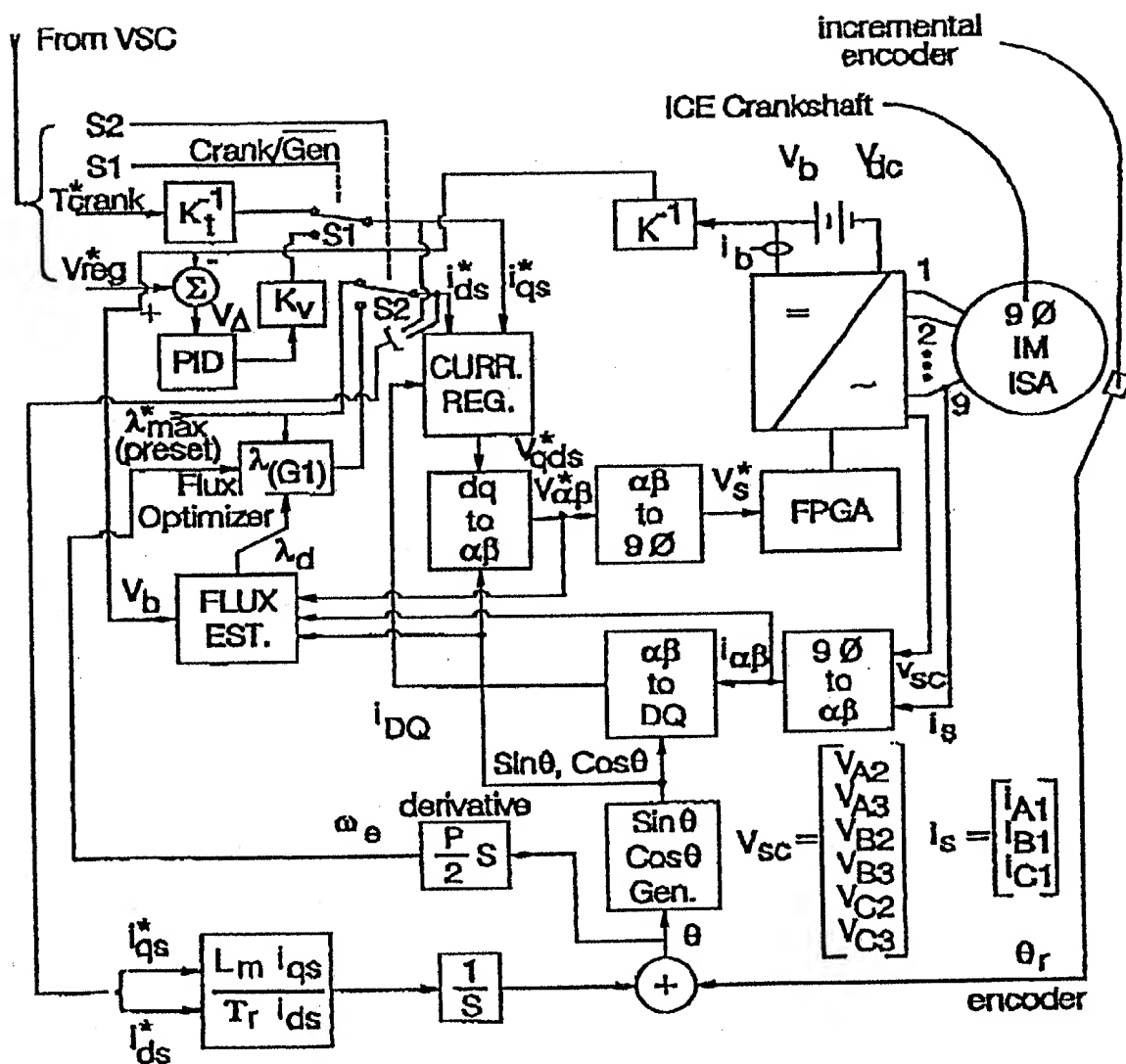


FIG. 8